

SEQUENCE LISTING

&lt;110&gt; E. I. du Pont de Nemours and Company

&lt;120&gt; Plant Catabolite Repression Genes

&lt;130&gt; BB1316

&lt;140&gt;

&lt;141&gt;

&lt;150&gt; 60/112,564

&lt;151&gt; 1998-12-16

&lt;160&gt; 22

&lt;170&gt; Microsoft Office 97

&lt;210&gt; 1

&lt;211&gt; 1576

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 451

&lt;212&gt; PRT

&lt;213&gt; Zea mays

&lt;400&gt; 2

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 Gly Glu Phe Gly Ile Val Asn Thr Leu Tyr Leu Thr Arg Glu Tyr Asn  
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 Gln Ile Asn Thr Leu Ser Ser Pro Ser Thr Pro Gly Ser Arg Met Asn  
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 Met Asp Val Asp Asn Glu Asn Phe Gln Arg Thr Val Thr Leu Ser Asp  
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 Gly Thr Val Ser Glu Gly Thr Leu Arg Val Ser Glu Ala Ala Ile Gln  
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 Ile Ser Arg Cys Arg Val Ser Glu Tyr Leu Asn Leu His Thr Cys Tyr  
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 Asp Leu Leu Pro Asp Ser Gly Lys Val Ile Ala Leu Asp Ile Asn Leu  
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 Pro Val Lys Gln Ser Phe His Ile Leu His Glu Gln Gly Ile Pro Val  
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 Ala Pro Leu Trp Asp Ser Phe Arg Gly Gln Phe Val Gly Leu Leu Ser  
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 Pro Leu Asp Phe Ile Leu Ile Leu Arg Glu Leu Glu Thr His Gly Ser  
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 Asn Leu Thr Glu Glu Gln Leu Glu Thr His Thr Ile Ser Ala Trp Lys  
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 Glu Ala Lys Arg Gln Thr Asn Gly Arg Asn Asp Ser Gln Trp Arg Pro  
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 Gln Gln His Leu Val His Ala Thr Pro Tyr Glu Ser Leu Arg Asp Ile  
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 Ala Val Lys Leu Leu Gln Asn Gly Ile Ser Thr Val Pro Val Ile Tyr  
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 Ser Ser Ser Ser Asp Gly Ser Phe Pro Gln Leu Leu His Leu Ala Ser  
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 Leu Ser Gly Ile Leu Lys Cys Ile Cys Arg Tyr Phe Lys Asn Ser Thr  
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 Gly Asn Leu Pro Ile Leu Asn Gln Pro Val Cys Ser Ile Pro Leu Gly  
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Ala Gly Val Ser Ser Ile Pro Ile Val Asp Asp Asn Asp Ser Leu Leu  
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Asp Thr Tyr Ser Arg Ser Asp Ile Thr Ala Leu Ala Lys Asp Lys Val  
355 360 365

Tyr Thr His Val Arg Leu Asp Glu Met Thr Ile His Gln Ala Leu Gln  
370 375 380

Leu Gly Gln Asp Ala Asn Thr Pro Phe Gly Phe Phe Asn Gly Gln Arg  
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Cys Gln Met Cys Leu Arg Ser Asp Pro Leu Leu Lys Val Met Glu Arg  
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Leu Ala Asn Pro Gly Val Arg Arg Val Phe Ile Val Glu Ala Gly Ser  
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Lys Arg Val Glu Gly Ile Ile Ser Leu Ser Asp Ile Phe Lys Phe Leu  
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Leu Ser Leu  
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<211> 2149  
<212> DNA  
<213> *Oryza sativa*

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 <211> 493  
 <212> PRT  
 <213> *Oryza sativa*

<400> 4

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Lys Arg Val Tyr Leu Thr Gly Ser Phe Thr Arg Trp Thr Glu His Leu
    35                      40                      45

Pro Met Ser Pro Val Glu Gly Cys Pro Thr Val Phe Gln Ala Ile Cys
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Ser Leu Ser Pro Gly Ile His Gln Tyr Lys Phe Cys Val Asp Gly Glu
    65                      70                      75                      80

Trp Arg His Asp Glu Arg Gln Pro Thr Ile Thr Gly Asp Tyr Gly Val
                85                      90                      95

Val Asn Thr Leu Cys Leu Thr Arg Asp Phe Asp Gln Ile Asn Thr Ile
    100                      105                      110

Leu Ser Pro Ser Thr Pro Gly Ser Arg Met Asn Met Asp Val Asp Asn
    115                      120                      125

Asp Asn Phe Gln Arg Thr Val Ser Leu Ser Asp Gly Ile Ile Gln Glu
    130                      135                      140

Gly Pro Gln Arg Ile Ser Glu Ala Ala Ile Gln Ile Ser Arg Cys Arg
    145                      150                      155                      160

Val Ala Asp Phe Leu Asn Gly Gln Thr Gly Tyr Asp Leu Leu Pro Asp
    165                      170                      175

Ser Gly Lys Val Ile Ala Leu Asp Val Asn Leu Pro Val Lys Gln Ser
    180                      185                      190

Phe His Ile Leu His Glu Gln Gly Ile Pro Val Ala Pro Leu Trp Asp
    195                      200                      205

Ser Phe Arg Gly Gln Phe Val Gly Leu Leu Ser Pro Leu Asp Phe Ile
    210                      215                      220

Leu Ile Leu Arg Glu Leu Glu Thr His Gly Ser Asn Leu Thr Glu Glu
    225                      230                      235                      240

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Gln Leu Glu Thr His Thr Ile Ser Ala Trp Lys Glu Ala Lys Arg Gln  
245 250 255

Thr Tyr Ala Arg Asn Glu Gly Ser Trp Arg Ala Asn His His Leu Val  
260 265 270

His Ala Thr Pro Tyr Glu Ser Leu Arg Glu Ile Ala Met Lys Ile Leu  
275 280 285

Gln Asn Gly Val Ser Thr Val Pro Ile Met Phe Ser Ser Ser Pro Asp  
290 295 300

Gly Ser Tyr Pro Gln Leu Leu His Leu Ala Ser Leu Ser Gly Ile Leu  
305 310 315 320

Lys Cys Ile Cys Arg Tyr Phe Lys Asn Ser Gln Gly Asn Leu Pro Ile  
325 330 335

Leu Ser Gln Pro Val Cys Thr Ile Pro Leu Gly Thr Trp Val Pro Lys  
340 345 350

Ile Gly Asp Pro Asn Gly Arg Pro Leu Ala Met Leu Arg Pro Asn Thr  
355 360 365

Ser Leu Ser Ala Ala Leu Asn Leu Leu Val Gln Ala Gly Val Ser Ser  
370 375 380

Ile Pro Ile Val Asp Asp Asn Asp Ser Leu Leu Asp Thr Tyr Ser Arg  
385 390 395 400

Ser Asp Ile Thr Ala Leu Ala Lys Asp Lys Val Tyr Thr His Ile Arg  
405 410 415

Leu Asp Glu Met Thr Ile His Gln Ala Leu Gln Leu Gly Gln Asp Ala  
420 425 430

Asn Ser Pro Phe Gly Phe Phe Asn Gly Gln Arg Cys Gln Met Cys Leu  
435 440 445

Arg Ser Asp Thr Leu Leu Lys Val Met Glu Arg Leu Ala Asn Pro Gly  
450 455 460

Val	Arg	Arg	Val	Phe	Ile	Val	Glu	Ala	Gly	Ser	Lys	Arg	Val	Glu	Gly
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Ile Ile Ser Leu Ser Asp Ile Phe Lys Phe Leu Leu Ser  
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<212> DNA
<213> Oryza sativa
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<210> 6  
 <211> 189  
 <212> PRT  
 <213> Oryza sativa

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 Thr Leu Pro Gly Ile Val Lys Phe Ile Cys Ser Lys Leu Gln Glu Gln  
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 Pro Glu Gly Tyr Ser Phe Leu Gln Asn Gln Ile Val Ser Met Pro Ile  
 35 40 45  
 Gly Thr Trp Ser Pro His Thr Gly Lys Ala Ser Asn Arg Gln Leu Arg  
 50 55 60  
 Thr Ser Arg Pro Ser Thr Pro Leu Asn Ser Cys Leu Asp Leu Leu Leu  
 65 70 75 80  
 Glu Asp Arg Val Ser Ser Ile Pro Ile Val Asp Asp Asn Gly Ala Leu  
 85 90 95  
 Leu Asp Val Tyr Ser Leu Ser Asp Ile Met Ala Leu Gly Lys Asn Asp  
 100 105 110  
 Val Tyr Thr Arg Ile Glu Leu Glu Gln Val Thr Val Glu His Ala Leu  
 115 120 125  
 Glu Leu Gln Tyr Gln Val Asn Gly Arg Arg His Cys His Thr Cys Leu  
 130 135 140  
 Ser Thr Ser Thr Phe Leu Glu Val Leu Glu Gln Leu Ser Ala Pro Gly  
 145 150 155 160  
 Val Arg Arg Val Val Val Ile Glu Pro Arg Ser Arg Phe Val Gln Gly  
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 Ile Ile Ser Leu Arg Asp Ala Phe Thr Phe Leu Ile Gly  
 180 185

<210> 7  
 <211> 2160  
 <212> DNA  
 <213> Glycine max

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 <212> PRT  
 <213> Glycine max

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 Ser Val Tyr Leu Ser Gly Ser Phe Thr Arg Trp Ser Glu Leu Leu Gln  
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 Arg His Asp Asp Leu Gln Pro Cys Glu Ser Gly Glu Tyr Gly Ile Val  
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 Asn Thr Val Ser Leu Ala Thr Asp Pro Asn Ile Leu Pro Val Leu Thr  
   100                  105                  110

Pro Asp Ile Val Ser Gly Ser Asn Met Asp Val Asp Asn Glu Ala Phe  
 115 120 125  
 Arg Arg Met Val Arg Leu Thr Asp Gly Thr Leu Ser Asn Val Leu Leu  
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 Pro Arg Ile Ser Asp Val Asp Ile Gln Thr Ser Arg Gln Arg Ile Ser  
 145 150 155 160  
 Ala Phe Leu Ser Met Ser Thr Ala Tyr Glu Leu Leu Pro Glu Ser Gly  
 165 170 175  
 Lys Val Val Thr Leu Asp Val Asp Leu Pro Val Lys Gln Ala Phe His  
 180 185 190  
 Ile Leu His Glu Gln Gly Ile Pro Ile Ala Pro Leu Trp Asp Ile Cys  
 195 200 205  
 Lys Gly Gln Phe Val Gly Val Leu Ser Ala Leu Asp Phe Ile Leu Ile  
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 Glu Thr His Thr Ile Ser Ala Trp Lys Gly Gly Lys Trp Thr Gly Phe  
 245 250 255  
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 260 265 270  
 Ala Val Lys Ile Leu Gln His Gly Ile Ser Thr Val Pro Ile Ile His  
 275 280 285  
 Ser Glu Asp Gly Ser Phe Pro Gln Leu Leu His Leu Ala Ser Leu Ser  
 290 295 300  
 Gly Ile Leu Lys Cys Ile Cys Arg Tyr Phe Arg Asn Cys Ser Ser Ser  
 305 310 315 320  
 Leu Pro Ile Leu Gln Leu Pro Ile Cys Ala Ile Pro Val Gly Thr Trp  
 325 330 335  
 Val Pro Lys Ile Gly Glu Ser Asn Arg Arg Pro Leu Ala Met Leu Arg  
 340 345 350  
 Pro Asn Ala Ser Leu Thr Ser Ala Leu Asn Leu Leu Val Gln Ala Gln  
 355 360 365  
 Val Ser Ser Ile Pro Ile Val Asp Asp Ser Asp Ser Leu Leu Asp Ile  
 370 375 380  
 Tyr Cys Arg Ser Asp Ile Thr Ala Leu Ala Lys Asp Arg Thr Tyr Thr  
 385 390 395 400  
 His Ile Asn Leu Asp Glu Met Thr Val His Gln Ala Leu Gln Leu Gly  
 405 410 415  
 Gln Asp Ser Tyr Asn Thr Tyr Glu Leu Ser Cys Gln Arg Cys Gln Met  
 420 425 430



Cys Leu Arg Thr Asp Ser Leu His Lys Val Met Glu Arg Leu Ala Ser  
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Pro Gly Val Arg Arg Leu Val Ile Val Glu Ala Gly Ser Lys Arg Val  
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Asn Ser

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 <213> Glycine max

<400> 9

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<210> 10

<211> 492

<212> PRT

<213> Glycine max

<400> 10

Met Phe Gly Gln Ser Met Asp Ser Ala Arg Asp Ala Ala Gly Gly Val  
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Ala Gly Thr Val Leu Ile Pro Met Arg Phe Val Trp Pro Tyr Gly Gly  
 20 25 30

Arg Ser Val Phe Leu Ser Gly Ser Phe Thr Arg Trp Leu Glu Leu Leu  
 35 40 45

Pro Met Ser Pro Val Glu Gly Cys Pro Thr Val Phe Gln Val Ile Tyr  
 50 55 60

Asn Leu Pro Pro Gly Tyr His Gln Tyr Lys Phe Phe Val Asp Gly Glu  
 65 70 75 80

Trp Arg His Asp Glu His Gln Pro Tyr Val Pro Gly Glu Tyr Gly Ile  
 85 90 95

Val Asn Thr Val Leu Leu Ala Thr Asp Pro Asn Tyr Met Pro Val Leu  
 100 105 110

Pro Pro Asp Val Ala Ser Gly Asn Ser Met Asp Val Asp Asn Asp Ala  
 115 120 125

Phe Arg Arg Met Ala Arg Leu Thr Asp Gly Thr Leu Ser Glu Val Leu  
 130 135 140

Pro Arg Ile Ser Asp Thr Asp Val Gln Ile Ser Arg Gln Arg Ile Ser  
 145 150 155 160

Ala Phe Leu Ser Ser His Thr Ala Tyr Glu Leu Leu Pro Glu Ser Gly  
 165 170 175

Lys Val Val Ala Leu Asp Val Asp Leu Pro Val Lys Gln Ala Phe His  
 180 185 190

Ile Leu His Glu Gln Gly Val Phe Met Ala Pro Leu Trp Asp Phe Cys  
 195 200 205

Lys Gly Gln Phe Val Gly Val Leu Ser Ala Ser Asp Phe Ile Leu Ile  
 210 215 220

Leu Arg Glu Leu Gly Asn His Gly Ser Asn Leu Thr Glu Glu Glu Leu  
 225 230 235 240

Glu Thr His Thr Ile Ser Ala Trp Lys Glu Gly Lys Ser Tyr Leu Asn  
 245 250 255

Arg Gln Asn Asn Gly His Gly Thr Ala Phe Ser Arg Cys Phe Ile His  
 260 265 270

Ala Gly Pro Tyr Asp Asn Leu Lys Asp Ile Ala Met Lys Ile Leu Gln  
 275 280 285

Lys Glu Val Ser Thr Val Pro Ile Ile His Ser Ser Ser Glu Asp Ala  
 290 295 300

Ser Phe Pro Gln Leu Leu His Leu Ala Ser Leu Ser Gly Ile Leu Lys  
 305 310 315 320

Cys Ile Cys Arg Tyr Phe Arg His Cys Ser Ser Ser Leu Pro Val Leu  
 325 330 335

Gln Leu Pro Ile Cys Ala Ile Pro Val Gly Thr Trp Val Pro Lys Ile  
 340 345 350

Gly Glu Ser Asn Arg Arg Pro Leu Ala Met Leu Arg Pro Thr Ala Ser  
 355 360 365

Leu Ala Ser Ala Leu Asn Leu Leu Val Gln Ala Gln Val Ser Ser Ile  
 370 375 380

Pro Ile Val Asp Asp Asn Asp Ser Leu Leu Asp Ile Tyr Cys Arg Ser  
 385 390 395 400

Asp Ile Thr Ala Leu Ala Lys Asn Arg Ala Tyr Thr His Ile Asn Leu  
 405 410 415

Asp Glu Met Thr Val His Gln Ala Leu Gln Leu Gly Gln Asp Ala Tyr  
 420 425 430

Ser Pro Tyr Glu Leu Arg Ser Gln Arg Cys Gln Met Cys Leu Arg Ser  
 435 440 445

Asp Pro Leu His Lys Val Met Glu Arg Leu Ala Asn Pro Gly Val Arg  
 450 455 460

Arg Leu Val Ile Val Glu Ala Gly Ser Lys Arg Val Glu Gly Ile Val  
 465 470 475 480

Ser Leu Ser Asp Ile Phe Lys Phe Phe Ile Gly Gly  
 485 490

&lt;210&gt; 11

&lt;211&gt; 1266

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;400&gt; 11

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 tctacctctt tcgtttcgac tcatcattct taataccgat ttactgggtca agaagagctt 180  
 gaccatcctt ctacaaaatg gtatcgtttc agccccgcta tgggattccc atacctcaac 240  
 ctttgctgga cttcttacga cttcggacta tataaatgtt atccaatatt actggcagaa 300  
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 ggcaattggc gtactacctt tggagacggg atcgggtacat cctgcgcgac ctcttttacga 420  
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 cgagacggga aaagagatgg tggtcagtgt gattacacaa tatcgtatcc tgaagtttat 540  
 tagtgtcaat gtcgaagaga cggaattcct gaagaaaagt gtatcggaca tcaaacttgg 600  
 aacttatggg gacctacaaa ccgcaaatat ggacactccg gtgatcgacg tcatacatat 660  
 gatggtcaaa cacagcattt cgagcgttcc cattgttgac aaagattcgc gagtacttaa 720

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<210> 12  
 <211> 318  
 <212> PRT  
 <213> Glycine max

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 Asp Phe Leu Lys Arg Arg Thr Ser Tyr Asp Val Leu Pro Leu Ser Phe  
 20 25 30  
 Arg Leu Ile Ile Leu Asn Thr Asp Leu Leu Val Lys Lys Ser Leu Thr  
 35 40 45  
 Ile Leu Leu Gln Asn Gly Ile Val Ser Ala Pro Leu Trp Asp Ser His  
 50 55 60  
 Thr Ser Thr Phe Ala Gly Leu Leu Thr Thr Ser Asp Tyr Ile Asn Val  
 65 70 75 80  
 Ile Gln Tyr Tyr Trp Gln Asn Pro Glu Ala Leu Asn Gln Ile Asp Gln  
 85 90 95  
 Phe Lys Leu Ser Ser Leu Arg Asp Ile Glu Lys Ala Ile Gly Val Leu  
 100 105 110  
 Pro Leu Glu Thr Val Ser Val His Pro Ala Arg Pro Leu Tyr Asp Ala  
 115 120 125  
 Cys Arg Glu Met Leu Gln Thr Arg Ala Arg Arg Ile Pro Leu Val Asp  
 130 135 140  
 Val Asp Asp Glu Thr Gly Lys Glu Met Val Val Ser Val Ile Thr Gln  
 145 150 155 160  
 Tyr Arg Ile Leu Lys Phe Ile Ser Val Asn Val Glu Glu Thr Glu Phe  
 165 170 175  
 Leu Lys Lys Ser Val Ser Asp Ile Lys Leu Gly Thr Tyr Gly Asp Leu  
 180 185 190  
 Gln Thr Ala Asn Met Asp Thr Pro Val Ile Asp Val Ile His Met Met  
 195 200 205  
 Val Lys His Ser Ile Ser Ser Val Pro Ile Val Asp Lys Asp Ser Arg  
 210 215 220

Val Leu Asn Leu Phe Glu Ala Val Asp Val Ile Thr Ile Ile Lys Gly  
 225 230 235 240

Gly Val Tyr Asp Gly Leu Thr Leu Thr Val Gly Glu Ala Leu Ala Asn  
 245 250 255

Arg Ala Glu Asp Phe Ala Gly Ile Tyr Thr Cys Ser Glu Glu Asp Arg  
 260 265 270

Leu Asp Ser Ile Phe Asp Thr Ile Arg Lys Ser Arg Val His Arg Leu  
 275 280 285

Val Val Ile Asp Glu Glu Gln His Leu Lys Gly Val Ile Ser Leu Ser  
 290 295 300

Asp Ile Leu Gln Tyr Val Leu Leu His Gly Glu Asp Asp Asp  
 305 310 315

<210> 13  
 <211> 1632  
 <212> DNA  
 <213> Triticum aestivum

<400> 13

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aaaaaaaaaa	aa					1632

<210> 14  
 <211> 442  
 <212> PRT  
 <213> Triticum aestivum

<400> 14  
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Arg His Asp Glu Gly Gln Pro Thr Ile Thr Gly Glu Tyr Gly Val Val  
35 40 45  
Asn Thr Leu Tyr Leu Thr Arg Glu Phe Asp His Ile Asn Thr Val Leu  
50 55 60  
Ser Pro Thr Thr Pro Gly Ser Arg Met Asp Val Asp Ser Asp Ser Phe  
65 70 75 80  
Gln Arg Met Gly Ser Leu Ser Asp Gly Ala Leu Gln Glu Gly Ser Pro  
85 90 95  
Arg Ile Ser Glu Ala Ala Ile Gln Ile Ser Arg Cys Arg Val Ala Glu  
100 105 110  
Tyr Leu Asn Ala His Thr Gly Tyr Asp Leu Leu Pro Asp Ser Gly Lys  
115 120 125  
Val Ile Ala Leu Asp Ile Asn Leu Pro Val Lys Gln Ser Phe His Ile  
130 135 140  
Leu His Glu Gln Gly Ile Pro Val Ala Pro Leu Trp Asp Ser Phe Arg  
145 150 155 160  
Gly Gln Phe Val Gly Leu Leu Ser Pro Leu Asp Phe Ile Leu Ile Leu  
165 170 175  
Arg Glu Leu Glu Thr His Gly Ser Asn Leu Thr Glu Glu Gln Leu Glu  
180 185 190  
Thr His Thr Ile Ser Ala Trp Lys Glu Ala Lys Arg Gln Thr Tyr Gly  
195 200 205  
Arg Asn Asp Gly Gln Leu Arg Ser Asn Gln His Leu Val His Ala Thr  
210 215 220  
Pro Tyr Glu Ser Leu Arg Gly Ile Ala Met Lys Ile Leu Glu Thr Gly  
225 230 235 240  
Ile Ser Thr Val Pro Ile Ile Tyr Ser Ser Ser Ser Asp Gly Ser Phe  
245 250 255  
Pro Gln Leu Leu His Leu Ala Ser Leu Ser Gly Ile Leu Lys Cys Ile  
260 265 270  
Cys Arg Tyr Phe Lys Asn Ser Thr Gly Ser Leu Pro Ile Leu Asn Gln  
275 280 285  
Pro Val Cys Ser Ile Pro Leu Gly Thr Trp Val Pro Lys Ile Gly Glu  
290 295 300  
Pro Asn Gly His Pro Leu Ala Met Leu Arg Pro Asn Thr Ser Leu Ser  
305 310 315 320

Ser Ala Leu Asn Leu Leu Val Gln Ala Gly Val Ser Ser Ile Pro Ile  
325 330 335

Val Asp Asp Asn Asp Ser Leu Ile Asp Thr Tyr Ser Arg Ser Asp Ile  
340 345 350

Thr Ala Leu Ala Lys Asp Lys Val Tyr Thr His Ile Arg Leu Asp Glu  
355 360 365

Met Thr Ile His Gln Ala Leu Gln Leu Gly Gln Asp Ala Asn Ser Pro  
370 375 380

Phe Gly Leu Phe Asn Gly Gln Arg Cys Gln Met Cys Leu Gln Ser Asp  
385 390 395 400

Pro Leu Leu Lys Val Met Glu Arg Leu Ala Asn Pro Gly Val Arg Arg  
405 410 415

Val Phe Ile Val Glu Ala Gly Ser Lys Arg Val Glu Gly Val Ile Ser  
420 425 430

Leu Ser Asp Ile Phe Lys Leu Leu Leu Ser  
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<210> 15  
<211> 538  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (494)

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gcgtcaacct accatatctg gggagtttgg catagttaac acactttact tgacaaggga 180  
atataacca ataaacacct tatcaagtcc aagcacacct ggaagcagga tgaacatgga 240  
tgtggataat gaaaattttc aacgtacggt tacgttgtca gatggcaccg tttcagaagg 300  
tactctgaga gtttcagagg ctgcaatata aatatctagg tgtcgtgttt ctgaatatct 360  
gaatttgcac acatgctatg atttactccc agattctggc aagggttattg ccctagacat 420  
taattttacct gtgaagcaat cattccatat tctccatgaa caggggattc ctgtagctcc 480  
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<210>  
<211> 16  
<212> PRT  
<213> Zea mays

<220>  
<221> UNSURE  
<222> (50)

<400> 16  
Val Ser Glu Tyr Leu Asn Leu His Thr Cys Tyr Asp Leu Leu Pro Asp  
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Ser Gly Lys Val Ile Ala Leu Asp Ile Asn Leu Pro Val Lys Gln Ser  
20 25 30

Phe His Ile Leu His Glu Gln Gly Ile Pro Val Ala Pro Leu Trp Asp  
 35 40 45

Ser Xaa Lys Gly Gln Phe Gly Gly Pro Leu Ser  
 50 55

<210> 17  
 <211> 542  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> unsure  
 <222> (248)

<220>  
 <221> unsure  
 <222> (534)

<220>  
 <221> unsure  
 <222> (539)

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 cacatactcc ggagggttgg acattgtcac tcagggtgcg ggatctcttt taacaagaca 480  
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<210> 18  
 <211> 58  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <221> UNSURE  
 <222> (23)

<400> 18  
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 1 5 10 15

Leu Leu Glu Asp Arg Val Xaa Ser Ile Pro Ile Val Asp Asp Asn Gly  
 20 25 30

Ala Leu Leu Asp Val Tyr Ser Leu Ser Asp Ile Met Ala Leu Gly Lys  
 35 40 45

Asn Asp Val Thr Leu Val Leu Ser Leu Asn  
 50 55

<210> 19  
 <211> 498



&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;400&gt; 19

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ccttctacaa aatgggtatcg tttcagcccc gctatgggat tcccatacct caacctttgc 240
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tcgcgaagat gttgcaaac ccgggcccgcc gtatcccgtt ggggtgatgt tgatgacgaa 480
gacgggaaaa gagatggt 498

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&lt;210&gt; 20

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Glycine max

&lt;400&gt; 20

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Lys Gln Lys Gly Leu Lys Ser Ile Arg Asp Phe Leu Lys Arg Arg Thr
  1                      5              10              15

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Ser Tyr Asp Val Leu Pro Leu Ser Phe Arg Leu Ile Ile Leu Asn Thr
          20              25              30

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Asp Leu Leu Val Lys Lys Ser Leu Thr Ile Leu Leu Gln Asn Gly Ile
          35              40              45

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```

Val Ser Ala Pro Leu Trp Asp Ser His Thr Ser Thr Phe Ala Gly Leu
          50              55              60

```

```

Leu Thr Thr Ser Asp Tyr Ile Asn Val Ile Gln Tyr Tyr Trp Gln Asn
          65              70              75              80

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Pro Glu Ala Leu Asn Gln Ile Asp Gln Phe Lys Leu Ser Ser Leu Arg
          85              90              95

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```

Asp Ile Glu Lys Ala Ile Gly Val Leu Pro Leu Glu Thr Val Ser Val
          100             105             110

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His Pro Ala Arg Pro Leu Tyr Asp Ala Cys
          115             120

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&lt;210&gt; 21

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Triticum aestivum

&lt;400&gt; 21

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gctgcaactc gggcaagacc gaatcacttt gggg 514

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<210> 22  
<211> 77  
<212> PRT  
<213> Triticum aestivum

<400> 22

Leu Val His Ala Thr Pro Tyr Glu Ser Leu Arg Gly Ile Ala Met Lys  
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Ile Leu Glu Thr Gly Ile Ser Thr Val Pro Ile Ile Tyr Ser Ser Ser  
20 25 30

Ser Asp Gly Ser Phe Pro Gln Leu Leu His Leu Ala Ser Leu Ser Gly  
35 40 45

Ile Leu Lys Cys Ile Cys Arg Tyr Phe Lys Asn Ser Thr Gly Ser Leu  
50 55 60

Pro Ile Leu Asn Gln Pro Val Cys Ser Ile Pro Leu Gly  
65 70 75